

BOOK NOTICE

College Entomology. By E. O. Essig. New York. The Macmillan Company, 1942. $9\frac{1}{4} \times 6$ in. viii + 900 p. 308 figs. \$5.00.

This is a modern, well-written, text book on entomology for the use of students in colleges and universities. Separate chapters deal with the metamorphosis, the anatomy and the classification of insects. Of the remaining thirty-three chapters, each is devoted to an order of insects. The treatment of each order includes a general description of the characteristics of the order, descriptive text on habits, life cycles, etc., of its members, the basis for classification, a summary of the important external and internal anatomical characters of the adult, a summary of important larval characters, a list of the families, keys to suborders, superfamilies and to the more important families, descriptive accounts of family characters, habits and life-histories, and selected references. This treatment is modified in accordance with the importance of the orders and may either be restricted, or expanded to include keys to the larvae of important families, information on fossil history, castes of social insects, economic value of certain insects, etc. An extensive author and subject index is appended. The three hundred and eight figures are uniformly good.

The campodeids, iapygids and projapygids are the only groups remaining in the Linnæan order Apterā. The grylloblattids have been removed from the Orthoptera and placed in the order Grylloblattodea. Cockroaches, of the family Blattidæ formerly of the order Orthoptera, are now in the order Blattaria. The family Phasmidæ formerly of the Orthoptera is now the order Phasmida and the mantids are in the order Mantodea. The Diploglossata includes the hemimerids formerly in the Orthoptera. The name Embioptera has been followed for the embiid̄s. The Megaloptera includes the Sialidæ and Corydalidæ and the name Raphidiodea is used for the Raphidiidæ and Inocelliidæ. Some of these changes were recommended years ago, but were not fully adopted in our text books. This excellent book maintains the high standard of Professor Essig's former writings.—H. B. W.